



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Jiaxiang Ren, *et al.*

Serial No. 10/692,198

Filed: October 23, 2003

**Title: METHOD FOR STABLE
ESTIMATION OF ANISOTROPIC
PARAMETERS FOR P-WAVE
PRESTACK IMAGING**

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Group Art Unit: Unknown

Examiner: Unknown

Atty Docket No. PGS-03-18US

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**Commissioner for Patents
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E. Eugene Thigpen
E. Eugene Thigpen

Date: January 27, 2003

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR § 1.97(b)

Sir:

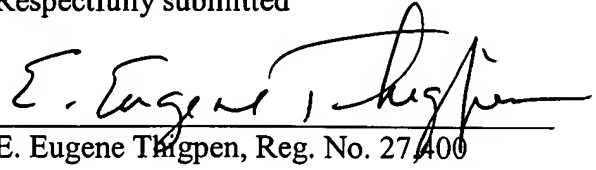
The Applicant respectfully submits herewith an Information Disclosure Statement citing copies of references (C1-C5).

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits.

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. § 1.16 to 1.21 be deemed

necessary for any reason the Commissioner is authorized to deduct the fees from Petroleum Geo-Services, Inc.'s Deposit Account 50-2223.

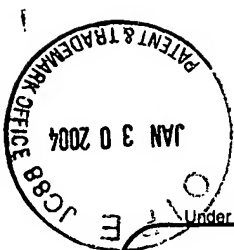
Respectfully submitted

A handwritten signature in black ink, appearing to read "E. Eugene Thigpen", is written over a horizontal line.

E. Eugene Thigpen, Reg. No. 27,400

Date: January 27, 2003

Petroleum Geo Services, Inc.
P.O. Box 42805
Houston, TX 77242-2805
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PTO/SB/21 (08-03)

Approved for use through 08/30/2003. OMB 0651-0031

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**TRANSMITTAL
FORM**

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/692,198
	Filing Date	October 23, 2003
	First Named Inventor	Jiaxiang Ren
	Art Unit	
	Examiner Name	
Total Number of Pages in This Submission	Attorney Docket Number	PGS-03-18US

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	E. Eugene Thigpen		
Signature			
Date	January 27, 2004		

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Substitute for form 1449A/PTO

Atty. Docket No.

PGS-03-18US

Serial No. 10691,198

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

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Applicants

Jiaxiang Ren, *et al.*

Examiner Name

Unknown

Filing Date:

October 23, 2003

Group Art:

U.S. Patent Documents

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Foreign Patent Documents

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Other Art

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U.S. Patent Documents

Exam. Init.	Cite No.	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1				
	A2				
	A3				
	A4				
	A5				
	A6				
	A7				
	A8				
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	A20				

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PGS-03-18US

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Page 2 of 2

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Patent Documents

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Foreign Patent Documents

See Page 2

Other Art

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Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1						
	B2						
	B3						
	B4						
	B5						

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	TARIQ ALKHALIFAH, "Velocity analysis using nonhyperbolic moveout in transversely isotropic media", Geophysics, 1997, pages 1839-1845, Vol. 62, No. 6
	C2	JON F. CLAERBOUT, SERGEY FOMEL, "Geophysical Estimation by Examples: Environmental sound image enhancement", Stanford University, 2001
	C3	ROBERT G. CLAPP, PAUL SAVA, JON F. CLAERBOUT, "Interval velocity estimation with a null-space", Stanford Exploration Project, 1998, pages 147-157, Report SEP-97
	C4	MIN LOU, LONG DON PHAM, SHENG LEE, "Anisotropic parameter estimation from P- and PS-converted wave data", EAGE 64 th Conference & Exhibition, 2002, Florence, Italy
	C5	RUBEN D. MARTINEZ, SHENG LEE, "A strategy for anisotropic P-wave prestack imaging", 72 nd Ann. Internat. Mtg. Soc. Expl. Geophys., Expanded Abstracts, 2002, pages 149-152
	C6	
	C7	
	C8	
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	C11	
	C12	

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